

# AKSHAY CHAVAN

Nashik, Maharashtra, India

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## EDUCATION

**K. K. Wagh Institute of Engineering Education & Research | University of Pune | India**

**Aug 2016 - June 19**

*B.E. in Computer Engineering*

**(CGPA 8.76/10)**

**Coursework:** Data Structures & Algorithms, Advanced Engineering Mathematics, Discrete Mathematics, Object Oriented Programming, Advanced Database Management, Computer Networks, Cloud Computing, Machine Learning, Data Mining, Compiler Design, Operating System.

**K. K. Wagh Polytechnic | Maharashtra State Board of Technical Education | India**

**Aug 2013 - June 16**

*Diploma in Computer Technology*

**(Grade: 89.06% | Equivalent GPA 10/10)**

**Coursework:** Engineering Mathematics, Data Structures & Algorithms, Object Oriented Programming, Database Management System, Computer Networks, Operating Systems, Software Engineering, Software Testing, Java Programming, Microprocessor and Programming, Computer Security.

## PROFESSIONAL EXPERIENCE

**Quantiphi Analytics | Mumbai, India**

**July 2021 - Present**

*Full-Stack Developer, Applied AI & ML*

- Developed an end to end coordinated software product leveraging ML to detect defects and misalignments in the construction process so that it can assist field technicians to work faster in risk mitigation process while improving the overall time and cost.
- Coordinated with Google Team for leveraging Google Cloud Platform(GCP) for the development of ML model using Vertex AI and the deployment of the software application over GCP cloud.
- Technologies: GCP, Angular, Node, Javascript/Typescript, HTML, CSS, jQuery, Android, Python, Java, Firestore, Git.

**FinIQ Consulting | Nashik, India**

**July 2019 - July 2021**

*Full-Stack Developer, Web & Mobile Applications*

- Developed multiple structured and trading platform products that are actively used in financial industry by thousands of bankers across multiple countries.
- Contributed in the optimization of code and backend procedures for several software products being developed in FinIQ's development environment.
- Technologies: Angular, Node, Javascript/Typescript, HTML, CSS, jQuery, Android, Python, Java, SQL, Git.

**FinIQ Consulting | Nashik, India**

**May 2018 - June 2018**

*Software Development Intern*

- Developed various mini-projects demonstrating the implementation of technologies that were taught during the internship tenure.
- Contributed in the development and optimization on some of the ongoing projects.
- Technologies: Angular, Node, Javascript/Typescript, HTML, CSS, jQuery, SQL, C#, .Net, Git.

## ACADEMIC PROJECTS

**Vaxicov - covid19 vaccination slots availability checker and notifier**

**(Android App)**

- An Android application to check the availability of covid19 vaccination centres all across India.

**Diabetic Retinopathy Classification using Deep Learning**

**(Machine Learning)**

- A deep learning based solution for classification of diabetic retinopathy into its stages with retinal images as input
- Algorithm used: Convolutional Neural Network

**Portable Antivirus System**

**(Cyber Security)**

- An on-the-go antivirus system that can reside in any external storage device and provide plug-and-play scanning functionality.

**POS Tagger for Hindi Language**

**(Compilers)**

- Identification and tagging morphologically rich Part-of-Speech(POS) for Hindi language using NLP.

## RESEARCH EXPERIENCE / PUBLICATIONS

**Research Intern | Xu Labs, Computational Biology Department, Carnegie Mellon University**

**September 2021 - Present**

- Collaborated and contributed towards optimizing the source code for Xu Lab's website pages (visible here - <https://github.com/xulabs/xulabs.github.io>)
- Working on enhancing and optimizing the preprocessing pipelines on Cryo-EM images using architectures like VGG-16, ResNet and Vision Transformers for Feature Extraction and Classification.

**Proposing a Semantic Analysis based Sanskrit Compiler by mapping Sanskrit's linguistic features with Compiler phases**

- Publisher:** [IEEE Xplore](#) | **Conference:** ICESC'21 | **DOI:** 10.1109/ICESC51422.2021.9532969

**Diebetic Retinopathy Classification by means of Deep Learning**

- Publisher:** [IEEE Xplore](#) | **Conference:** ICICCS'19 | **DOI:** 10.1109/ICICCS51141.2021.9432075

**Implementation of Portable Antivirus System using Signature-based Detection and Heuristic Analysis**

- Publisher:** [IEEE Xplore](#) | **Conference:** ICICCS'21 | **DOI:** 10.1109/ICOEI51242.2021.9452909

## ACHIEVEMENTS / EXTRA-CURRICULAR ACTIVITIES

- All India Rank 5 with 88% score in NPTEL-Cloud Computing Certification Exam conducted by IIT, Kharagpur.
- Awarded as 'Student of the Week' by Sakal News Media Group among all the students of the entire Maharashtra State. ([article](#))
- Best Outgoing Student Award | Computer Technology Department | Diploma
- 2nd prize in several State Level programming competitions(Metastorm'17, ProJIT'17, Ignitra'17, Metastorm'19, MVP Kshitij'19).
- 2nd Departmental Topper (among 180) | Diploma in Computer Technology
- Event Head, Source Code (National Level Programming Competition) | K. K. Wagh Institute of Engg. Education & Research
- 3rd Class Topper (among 71) | Second Year, B.E. in Computer Engineering
- Secretary, ACTS Committee | K. K. Wagh Polytechnic
- 1st prize in National Level project competitions (Pro-Utsav'16, Prayukti'16) for the project titled 'Portable Antivirus System'.
- Training & Placement Student Coordinator | K. K. Wagh Institute of Engg. Education & Research
- 1st prize in several State Level programming competitions(Metastorm'17, Ignitra'18, Ignite'19).